## IN THE CLAIMS

1. (Amended) A method process for the preparation of  $H_2O_{24}$  wherein[[,]]  $H_2O_2$  is produced

[[by ]]a first reactionstage, electrolysis converts[[ing]]  $H_2SO_4$  into  $H_2S_2O_8$ , and then

in\_a second reactionstage, said  $H_2S_2O_8$  formed\_in\_first\_reaction, is reacts[[ed]] with  $H_2O$  in a second reaction to form  $H_2O_2$  and  $H_2SO_4$ , and wherein

a membrane performs at least one selected from of a group consisting of: the separation of said  $H_2$  from said  $H_2S_2O_8$ , separation of said  $H_2$  from a mixture of said  $H_2S_2O_8$  and said  $H_2S_2O_8$ , separation of said  $H_2O_2$  from said  $H_2S_2O_8$ , separation of said  $H_2O_2$  and  $H_2O_3$  from said  $H_2S_2O_8$ , separation of said  $H_2O_2$  and  $H_2O_3$  from said  $H_2S_2O_8$ , separation of said  $H_2S_2O_8$ , the separation of said  $H_2S_2O_8$  from said  $H_2S_2O_8$  and any combination therein is performed with a membrane.

- 2. (Arnended) The method<u>process</u> of claim 1, wherein the first reaction does not go to completion and wherein, a mixture of said H<sub>2</sub>SO<sub>4</sub> and said H<sub>2</sub>S<sub>2</sub>O<sub>8</sub> is reacted with H<sub>2</sub>O in the second reactionstage.
- 3. (Amended) The <u>methodprocess</u> of claim 1, wherein said membrane is constructed comprises organic materials.
- (Amended) The methodorocess of claim 1, wherein said membrane is constructed comprises inorganic materials.
- 5. (Amended) The method<u>process</u> of claim 1, wherein said H<sub>2</sub>SO<sub>4</sub> [[in the]]from said second reactionstage is recycled to [[the]]said first reactionstage.
- (Amended) The method process of claim 1, wherein said electrolysis is performed across an electrically charged conductive membrane.
- (Amended) The method process of claim 1, wherein said electrolysis is performed with electrodes.
- 8. (Amended) The method<u>process</u> of claim 7, wherein said electrodes are made of comprise at least one selected from the group consisting of zirconium, hastelloy, ceramic[[ and ]], titanium and any combination therein.

- 9. (Amended) The methodprocess of claim 1, wherein at least one of [[the]]said separation [[processes]]is performed with distillation.
- 10. (Amended) The method<u>process</u> of claim 9, wherein said distillation separates said  $H_2$  from at least one of said  $H_2$ SO<sub>4</sub> and  $H_2$ SO<sub>6</sub>.
- 11. (Amended) The method process of claim 9, wherein said distillation separates said  $H_2O_2$  from at least one of: said  $H_2SO_4$  and  $H_2SO_8$ .
- 12. (Amended) The methodprocess of claim 9, wherein said distillation separates said  $H_2O$  from at least one of said  $H_2SO_4$  and  $H_2SO_8$ .
- 13. (Amended) The methodprocess of claim 1, wherein said second reactionstage contains an excess of said H<sub>2</sub>O, and wherein

an aqueous concentration of said H<sub>2</sub>O<sub>2</sub> is generated.

- 14. (Amended) The method<u>process</u> of claim 1, wherein  $H_2O$  is added to said  $H_2O_2$  from said second reactionstage.
- 15. (Amended) The  $\frac{1}{1}$  method  $\frac{1}{1}$  of claim 1, wherein there is no vehicular transportation of said  $\frac{1}{1}$ .
- 16. (Amended) The method<u>process</u> of claim 1, wherein said H<sub>2</sub> produced in the first reaction is utilized in a fuel cell to generate electricity.
- 17. (Amended) The method<u>process</u> of claim 16, wherein at least a portion of said electricity is used for the electrolytic conversion of said  $H_2SO_4$  into said  $H_2$  and said  $H_2SO_8$ .

Please cancel claims 18 through 34.